

PATENT

Attorney Docket No. A-65353-8/RFT/RMS/RMK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

MAYO, et al.

Serial No. 09/837,886

Filed: April 18, 2001

For: *Apparatus and Method for
Automated Protein Design*

Group No. 1637

Examiner: Kim, Young J.

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Diane M. Tsuda

RESPONSE TO OFFICE ACTION

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

This paper is being submitted in response to the Office Action mailed February 10, 2003.
This response is filed on or before August 10, 2003, with a Petition for Three-Month Extension of
Time and appropriate fees. The Commissioner is authorized to charge any additional fees, including
any extension fees, which may be required, or credit any overpayment to Deposit Account No.
502325.

In the Claims:Claim Listing

Claims 1-27 (Canceled)

28. (Currently Amended) A method executed by a computer under the control of a program, said
computer including a memory for storing said program, said method comprising the steps of:

(A) receiving a protein backbone structure with variable residue positions of a desired target
protein, said protein structure comprising:

i) a protein template structure comprising a protein backbone structure and at least
one non-variable residue; and

ii) a plurality of variable residue positions;

(B) establishing a group of potential amino acids side chains for a plurality of for each of said
variable residue positions of said protein; and

(C) analyzing the interaction of all or part of each of said potential amino acids side chains
from said group with all or part of the remainder of said protein backbone structure to